

Message Text

UNCLASSIFIED

PAGE 01 TOKYO 03491 01 OF 02 030824Z
ACTION OES-07

INFO OCT-01 EUR-12 EA-12 ISO-00 ACDA-12 CIAE-00 INR-10
IO-14 L-03 NSAE-00 NSC-05 EB-08 NRC-07 SOE-02
DODE-00 SS-15 SP-02 CEQ-01 /111 W
-----100774 030842Z /11

R 030811Z MAR 78
FM AMEMBASSY TOKYO
TO SECSTATE WASHDC 5781
INFO AMEMBASSY PARIS
AMEMBASSY VIENNA
DOE WASHDC
DOE GERMANTOWN MD

UNCLAS SECTION 1 OF 2 TOKYO 3491

USIAEA

E.O. 11652: N/A
TAGS: PARM, TECH, IAEA, JA
SUBJECT: TOKAI ADVANCED SAFEGUARDS TECHNOLOGY MEETING: AGREED
PRELIMINARY DESCRIPTION OF PROGRAM

1. SEPTEL REPORTS NEGOTIATIONS AND DISCUSSIONS LEADING TO
CONCLUSION OF US-JAPAN-FRANCE AD REFERENDUM AGREEMENT OR
PROGRAM DESCRIPTION FOR APPLICATION OF ADVANCED SAFEGURADS
TECHNOLOGY TO TOKAI MURA REPROCESSING PLANT. FOLLOWING
IS QTE PRELIMINARY DESCRIPTION OF PROGRAM UNQTE:

2. BEGIN TEXT:

(A) SPENT FUEL SURVEILLANCE DEVICES
AGREED TO 8-MONTH STUDY ACCORDING TO DETAILS PROPOSED
IN U.S. PROPOSAL AND SCHEDULE. INITIAL DETAILED TECHNICAL
DISCUSSION WILL BE HELD MARCH 6, 1978 AT TOKAI MURA. U.S.
PRINCIPAL INVESTIGATOR WILL BE DR. T. SELLERS, SANDIA
LABORATORY. FRENCH CONTACT IS MR. G. DEAN, CEA.
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 TOKYO 03491 01 OF 02 030824Z

JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(B) GAMMA SPECTRA OF SPENT FUEL
AGREED TO 6-MONTH FEASIBILITY STUDY WITH U.S.,
FRENCH AND JAPANESE PARTICIPATION, WITH JOINT MEETING OF
JAPAN-FRANCE-U.S. TECHNICAL REPRESENTATIVES IN OCTOBER
1978, IN JAPAN. TASK WILL BE PERFORMED IN ACCORDANCE

WITH JAPANESE, FRENCH AND U.S. PROPOSALS.

PNC WILL SUPPLY NEEDED INFORMATION IN RESPONSE TO DETAILED REQUEST FROM U.S. AND FRANCE. DR. H. MENLOVE TO INITIATE TECHNICAL DISCUSSION AT TOKAI PLANT, MARCH 7, 1978. DR. C. HATCHER, LASL WILL BE U.S. PRINCIPAL INVESTIGATOR. MR. J. BOUCHARD, CEA WILL BE THE FRENCH PRINCIPAL INVESTIGATOR. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(C) DEMONSTRATION OF JULL-MONITORING SYSTEM

PNC WILL DISTRIBUTE DATA FROM NAI BASED SYSTEM IN SIX MONTHS ON JULL MEASUREMENTS PERFORMED AT TOKAI. FRANCE WILL ISSUE AT THE SAME DATE A REVIEW REPORT ON FRENCH EXPERIENCE FROM LA HAGUE MEASUREMENTS WITH THREE METHODS AND ON TOKAI FIRST RESULTS. U.S. WILL PROVIDE A PRELIMINARY DRAFT REPORT IN SIX MONTHS ON THE STATE OF THE ART IN U.S. AS IN U.S. PROPOSAL.

FIRST JOINT MEETING SCHEDULED IN OCTOBER 1978, TO REVIEW RESULTS OF THESE STUDIES AND FINAL REPORT WILL BE ISSUED IN 12MONTHS, WITH MEETING SCHEDULED AT THAT TIME. U.S. PRINCIPAL INVESTIGATOR WILL BE DR. C. HATCHER, LASL. FRENCH PRINCIPAL INVESTIGATOR WILL BE MR. J. BOUCHARD, CEA. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(D) DEMONSTRATION OF INSTRUMENTAL TECHNIQUE FOR UNCLASSIFIED

UNCLASSIFIED

PAGE 03 TOKYO 03491 01 OF 02 030824Z

MEASUREMENT OF SOLUTION WEIGHT IN THE ACCOUNTABILITY VESSEL (LOAD CELL) AGREED TO PROCEED AS PROPOSED BY U.S. WITH EMPHASIS ON CONSULTATION ON APPLICABLE ENGINEERING VARIABLES AS WILL BE DISCUSSED AT TOKAI ON MARCH 7, 1978. WILL INCLUDE VISIT BY JAPANESE TECHNICAL PERSONNEL TO U.S. INEL AND NBS FACILITIES.

U.S. PRINCIPAL INVESTIGATOR WILL BE MR. G. BOOMAN, INEL. FRENCH CONTACT WILL BE MR. J. REGNIER, COGEMA. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(E) DEMONSTRATION OF INSTRUMENTED TECHNIQUES FOR MEASUREMENT OF SOLUTION VOLUME IN ACCOUNTABILITY VESSELS (ELECTROMANOMETER)

THE U.S. AND JAPAN HAVE AGREED TO PROCEED ON THE FEASIBILITY STUDY AND PRELIMINARY CONCEPTUAL DESIGN OF THE U.S. PROPOSED PROGRAM. INSTALLATION DATA WILL BE OBTAINED AT TOKAI VISIT SCHEDULED ON MARCH 7, 1978. MEETING TO EVALUATE INITIAL STUDY AND PLANS FOR FURTHER WORK WILL BE HELD AT TOKAI IN MAY 1978. PRINCIPAL INVESTIGATOR FOR THE U.S. WILL BE MR. S. SUDA. THE FRENCH CONTACT IS MR. G. DEAN, CEA. THE JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(F) STUDY OF APPLICATION OF DYMAC PRINCIPLE TO
SAFEGUARDS

U.S. WILL PROVIDDE A ONE TO TWO WEEK BRIEFING AT
LASL FOR JAPANESE ENGINEER(S). THEREAFTER A DECISION
WILL BE MADE ON EXTENT OF U.S. PARTICIPATION IN SUPPORT
TO JAPANESE ON EXISTING JAPANESE/IAEA PROGRAM.

U.S. PRINCIPAL INVESTIGATOR WILL BE MR. R. AUGUSTON,
LASL. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(G) K-EDGE DENSITOMETER FOR MEASURING PLUTONIUM PRODUCT
CONCENTRATION

DISCUSSION WILL BE HELD AT TOKAI ON MARCH 7, 1978,
ON LABORATORY LAYOUT, SPACE, UTILITIES AND OTHER FACILITY
UNCLASSIFIED

UNCLASSIFIED

PAGE 04 TOKYO 03491 01 OF 02 030824Z

REQUIREMENTS. PNC PERSONNEL WILL VISIT LASL TO BECOME
FAMILIAR WITH PHYSICAL AND OPERATIONAL CHARACTERISTICS
OF K-EDGE EQUIPMENT. DEMONSTRATION OF OPERATING EQUIPMENT
WILL BE PROVIDED AT LASL. DECISION ON INSTALLATION AT
TOKAI WILL BE MADE ON THE BASIS OF THE ABOVE ESSENTIAL
INFORMATION, FOLLOWING THE LASL VISIT.

U.S. PRINCIPAL INVESTIGATOR WILL BE MR. T. CANADA,
LASL. FRENCH CONTACT WILL BE MR. G. DEAN, CEA. JAPANESE
PRINCIPAL INVESTIGATOR WILL BE ().

(H) HIGH RESOULTION GAMMA SPECTROMETER FOR PLUTONIUM
ISOTOPIC ANALYSIS

UNCLASSIFIED

NNN

UNCLASSIFIED

PAGE 01 TOKYO 03491 02 OF 02 030840Z
ACTION OES-07

INFO OCT-01 EUR-12 EA-12 ISO-00 ACDA-12 CIAE-00 INR-10
IO-14 L-03 NSAE-00 NSC-05 EB-08 NRC-07 SOE-02
DODE-00 SS-15 SP-02 CEQ-01 /111 W
-----100949 030842Z /11

R 030811Z MAR 78
FM AMEMBASSY TOKYO
TO SECSTATE WASHDC 5782

INFO AMEMBASSY PARIS
AMEMBASSY VIENNA
DOE WASHDC
DOE GERMANTOWN MD

UNCLAS SECTION 2 OF 2 TOKYO 3491

VISIT TO TOKAI LABORATORY ON MARCH 7, 1978, WILL BE MADE TO DETERMINE APPLICABILITY OF INSTALLING EQUIPMENT AT TOKAI PLANT. JAPANESE ALSO VISIT TO LLL IN CONNECTION WITH LASL BRIEFING TRIP (PROJECT G), TO BECOME FAMILIAIR WITH U.S. DEVELOPED EQUIPMENT. U.S. STUDY WILL BE STARTED ON EXPERIMENTAL PROGRAM TO GIVE VERIFICATION OF APPLICABILITY TO TOKAI TYPE SAMPLES.

A MEETING WILL BE HELD IN TOKAI IN OCTOBER 1978, TO EXCHANGE INFORMATION ON THE APPLICATION OF HIGH RESOLUTION GAMMA RAY SPECTROMETRY FOR THE MEASUREMENT OF PLUTONIUM ISOTOPES IN THE SPECIFIC CASE OF REPROCESSING PLANTS.

U.S. PRINCIPAL INVESTIGATOR IS DR. R. GUNNINK, LLL.
FRENCH PRINCIPAL INVESTIGATOR IS MR. J. LEGRAND, CEA.
JAPANESE PRINCIPAL INVESTIGATOR IS ().

(1) PRODUCT AREA MONITORING

PLANT INFORMATION NEEDED FOR THE U.S. TO BEGIN THE FEASIBILITY STUDY AS OUTLINED IN THE U.S. PROPOSAL AND UNCLASSIFIED

UNCLASSIFIED

PAGE 02 TOKYO 03491 02 OF 02 030840Z

WHICH CONCERNS THE PART OF THE PROCESS FROM THE OUTLET OF THE PU EVAPORATOR WILL BE FURNISHED BY PNC TO THE U.S. TECHNICAL PESONNEL ON MARCH 7, 1978 AT TOKAI.

PLANT INFORMATION NOT AVAILABLE ON MARCH 7 1978, WILL BE DELIVERED TO U.S. WITHIN 2 WEEKS THEREAFTER. FEASIBILITY STUDY BY THE U.S. WILL PROCEED WITH U.S. CONSULTATION AT TOKAI IN MAY 1978, AND COMPLETION OF FEASIBILITY STUDY IN JULY 1978, WITH U.S./JAPANESE CONSULTATION AGAIN AT TOKAI. AN EARLY VISIT BY JAPANESE TECHNICAL PERSONNEL TO U.S. INEL FACILITY WILL BE MADE TO DETERMINE EXTENT OF DIRECT TECHNOLOGY TRANSFER FROM EXISTING DOE INSTALLATION. PRELIMINARY CONCEPTUAL DESIGN WILL BE REVIEWED AT JULY 1978, MEETING, FOR RECOMMENDATION ON A TEST IMPLEMENTATION AT TOKAI. U.S. PRINCIPAL INVESTIGATOR WILL BE MR. G. BOOMAN, INEL. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(J) RESIN BEAD SAMPLING AND ANALYTICAL TECHNIQUE

AGGREGED TO PROCEED ACCORDING TO U.S. PROPOSAL WITH SCHEDULE FOR TRAINING TO BE PRESENTED BY THE JAPANESE BY APRIL 1978. DISCUSSIONS TO BE HELD AT TOKAI ON MARCH 7, 1978 WITH LABORATORY PERSONNEL. JAPANESE SUPPORT THE PROPOSAL FOR SAMPLE PREPARATION, DEVELOPMENT OF TECHNIQUE CAPABILITIES AT TOKAI. JAPANESE WILL CONTRIBUTE TO STUDY ON SAMPLE SHIPMENT PROCEDURES. U.S. PRINCIPAL INVESTIGATOR WILL BE MR. J. CARTER, ORNL. FRENCH CONTACT WILL BE MR. J. HURE, CEA. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(K) ISOTOPIC SAFEGUARDS TECHNIQUES

UNCLASSIFIED

UNCLASSIFIED

PAGE 03 TOKYO 03491 02 OF 02 030840Z

RESULTS OF TOKAI INPUT ACCOUNTABILITY MEASUREMENTS WILL BE ANALYZED BY THE FRENCH, U.S., AND JAPANESE IN ORDER TO IMPROVE THE KNOWLEDGE OF ISOTOPE CORRELATION TECHNIQUES AND ITS USEFULNESS FOR SAFEGUARDS PURPOSES.

EACH PARTY WILL SUBMIT TO PNC SUGGESTIONS ON PLANNING THE EXPERIMENTAL PROCEDURE TO OBTAIN THE NEEDED PLANT MEASUREMENTS, REACTOR AND FUEL INFORMATION.

IN TWO MONTHS PNC WILL ISSUE TO EACH PARTY A LIST OF THE DATA WHICH WILL BE MADE AVAILABLE BY THE JAPANESE AND INDICATE THE EXTENT OF EVALUATION PROGRAM. DATA EVALUATION WILL BE CARRIED OUT BY EACH PARTY, AS INDICATED IN THEIR PROPOSALS.

U.S. PRINCIPAL INVESTIGATOR WILL BE MR. C. TIMMERMAN, PNL. FRENCH PRINCIPAL INVESTIGATOR WILL BE MR. J. BOUCHARD, CEA. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(L) GRAVIMETRIC METHOD FOR INPUT MEASUREMENTS

A REVIEW OF THE RESULTS OBTAINED IN THE LA HAGUE PLANT WILL BE PERFORMED AND A REPORT WILL BE DELIVERED TO EACH PARTY, BY OCTOBER 1978.

U.S. WILL MAKE AVAILABLE INFORMATION ON U.S. EXPERIENCE AND COLLABORATE ON PROGRAM DEFINITION.

PRINCIPAL INVESTIGATOR FOR FRANCE WILL BE MR. J. HURE. U.S. CONTACT WILL BE MR. S. SUDA, BNL. JAPANESE PRINCIPAL INVESTIGATOR WILL BE ().

(M) TRACER METHODS FOR INPUT MEASUREMENTS

THE FEASIBILITY STUDY PRESENTLY BEING MADE IN FRANCE
UNCLASSIFIED

UNCLASSIFIED

PAGE 04 TOKYO 03491 02 OF 02 030840Z

WILL BE PURSUED. A PRELIMINARY REPORT WILL BE PROVIDED
TO THE OTHER PARTIES BY OCTOBER 1978. U.S. WILL MAKE
AVAILABLE INFORMATION ON U.S. EXPERIENCE AND COLLABORATE
ON PROGRAM DEFINITION.

PRINCIPAL INVESTIGATOR FO FRANCE WILL BE
MR. J. HURE, CEA. U.S. CONTACT WILL BE MR. S. SUDA, BNL.
JAPANESE PRINCIPAL INVESTIGATOR WILL BE (0.
END TEXT.

3. PROJECT A, B, C, D, AND F ARE IDENTIFIED BY FOOTNOTE
IN ORIGINAL TEXT AS AUGMENTING EXISTING JAPAN-IAEA
SAFEGURDD R&D AGREEMENT.
MANSFIELD

UNCLASSIFIED

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: NUCLEAR SAFEGUARDS, MEETINGS
Control Number: n/a
Copy: SINGLE
Draft Date: 03 mar 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 jan 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1978TOKYO03491
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D780097-0449
Format: TEL
From: TOKYO USIA
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t197803107/aaaadmyq.tel
Line Count: 299
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 32557bb8-c288-dd11-92da-001cc4696bcc
Office: ACTION OES
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 6
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 29 mar 2005
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: N/A
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 3118749
Secure: OPEN
Status: NATIVE
Subject: TOKAI ADVANCED SAFEGUARDS TECHNOLOGY MEETING: AGREED PRELIMINARY DESCRIPTION OF PROGRAM
TAGS: PARM, TECH, JA, IAEA
To: STATE
Type: TE
vdkgvwkey: odb://SAS/SAS.dbo.SAS_Docs/32557bb8-c288-dd11-92da-001cc4696bcc
Review Markings:
Sheryl P. Walter
Declassified/Released
US Department of State
EO Systematic Review
20 Mar 2014
Markings: Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014